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Order from OTS or SLA \$4.60 63-19007
Figs. available on loan from OTS

Trans. of Tsitologiia (USSR) 1962, v. 4, no. 2,
p. 150-159.

DESCRIPTORS: *Mitosis, Cells (Biology),
*Chromosomes, Morphology, Ribonucleic acids,
*Insects.

The behavior of the nuclear structures in the oogenesis
of two species of *Panorpa* was observed, beginning
with the stage of prophase of meiosis up to anaphase
of the first reduction division. The chromosomes
begin to be collected in a karyosphere shortly after the
(Biological Sciences--Physiology, TT, v. 10, no. 9)
(over)

63-19007

1. Title: Karyosphere
2. Title: *Panorpa*
- I. Gruzova, M. N.
- II. FASEB S-225-2
- III. Federation of American
Societies for
Experimental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

On the Distribution of Succinic Dehydrogenase in
Eimeria intestinalis Life Cycle, by T. V. Beier.

RUSSIAN, per, Tsitologiya, Vol IV, No 2, 1962,
pp 232-237.

NIL RFS 2196 (*Loan*)

Sci - Chem
Feb 64

248,278

Contribution to the Characteristics of Tumors
of Connective Tissue and Muscular Origin,
Caused by Intramuscular Injection of 20 Methyl
Cholanthrene. I. Cytological Characteristics
of Tumors in Mice and Rats, by V. M. Bresler
RUSSIAN, per, Tsitologia, Vol 4, No 3, 1962,
pp 264-275.

HEW NIH
6-1-68

Sci-B&M
Aug 68

362,366

4
Twenty-four Hour Rhythm of Mitoses and
Interrelations between Cell Activity and Cell
Division, by I. A. Alov, 16 pp.

RUSSIAN, per, ~~Tsitologiya~~, Vol IV, No 3, 1962
1962, pp 297-305. 9215859

NIH 11-10-63

Sci & Biol & Med
Jan 64

246, 250

Frisman, E. V., Yanovskaya, N. K. and others.
FLOW BIREFRINGENCE OF MACROMOLECULAR
RNA SOLUTIONS. [1962] [7]p. 11 refs. FASEB
manuscript no. S 127-2.

Order from OTS or SLA \$1.10 63-15994
Figs. available on loan from OTS

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 3,
p. 323-325.

DESCRIPTORS: Fluid flow, *Molecular structure,
*Ribonucleic acids, *Refraction, *Polymers, Biophysics.

The preliminary results of the study of the flow
birefringence of macromolecular RNA (ribonucleic acid)
solutions are described. The RNA was isolated from a
transplantable mucous carcinoma of the liver. An op-
tical apparatus with a half-shaded condenser was used
for studying the flow birefringence of the RNA solutions.
(Biological Sciences--Biochemistry, TT, v. 10, no. 6)
(over)

63-15994

1. Title: Birefringence
2. Title: Macromolecules
- I. Frisman, E. V.
- II. Yanovskaya, N. K.
- III. FASEB S-127-2
- IV. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- V. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

The Karyosphere in the Oogenesis of Blaps
lethifera (Coleoptera) (Darkling Beetle),
by M. N. Gruzova, 14 pp.
RUSSIAN, par, Tsitolgia, Vol 4, 1962,
pp 335-338. F911280167
AEC ORNL Tr-1697

336,987

Sci - Biol & Med
Sep 67

Kamnev, I. E. and Gordeeva, L. F.
EXCITATION OF EPITHELIAL CELLS AND TISSUES.
[1962] [12]p. 12 refs. FASIB manuscript no. S128-2.
Order from OTS or SLA \$1.60 63-15995
Figs. available on loan from OTS

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 3,
p. 347-353.

DESCRIPTORS: Excitation, *Epithelium, *Cells
(Biology), *Tissues (Biology), *Histology, *Eye,
Frogs, Biological stains, Wounds and injuries,
Electric currents.

The cells of epithelial tissues respond to external
stimuli (mechanical, thermal, induction current) by
various morphophysiological changes. The character
of these changes depends on the distance between the
cell and the site of application of the agent. The range
(Biological Sciences, IT, v. 10, no. 2) (over)

63-15995

- I. Kamnev, I. E.
- II. Gordeeva, L. F.
- III. FASIB S-128-2
- IV. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- V. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Bochkov, N. P. and Nemtseva, L. S.
USE OF THE TECHNIQUE OF INCUBATION OF
TISSUES IN VITRO TO STUDY MAMMALIAN
KARYOTYPES. [1962] [8]p. 12 refs. FASEB
manuscript no. S 129-2.
Order from OTS or SLA \$1.10

63-15996

Trans. of Tsitologiia (USSR) 1962, v. 4, no. 3,
p. 365-367.

DESCRIPTORS: *Tissues (Biology), Mammals,
Colchicine, *Cytology, Culture media, *Mitosis,
Genes, *Cells (Biology), Genetics.

The technique of incubation of tissues in vitro,
modified for cytogenic purposes, was employed using
a salt medium containing colchicine. Mitosis con-
tinued to completion in bone marrow cells which were
incubated in physiological saline and in Meshkov-
(Biological Sciences--Pathology, TT, v. 10, no.7)
(over)

63-15996

- I. Title: Karyotypes
- I. Bochkov, N. P.
- II. Nemtseva, L. S.
- III. FASEB S-129-2
- IV. Federation of American
Societies for
Experimental Biology,
Washington, D. C.
- V. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Joint Scientific Session on Problems of the
N Biological Principles of Malignant Growth, by
N. N. Aksenova, V. M. Bresler, et al.

RUSSIAN, per, Tsitologiya, Vol IV, No 3, May/Jun
1962, pp 370-373. 9068176

USDA Tr A-1362

Sci - Biol
Nov 62

216,889

62-33225

Svetlov, P. G.
EFFECT OF ENVIRONMENTAL CONDITIONS ON
SEX DETERMINATION IN DROSOPHILA MELANO-
GASTER. Jan/Feb 64, 7p 33refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, 1964, v. 23, no. 1
(p. T202-T208)

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 4,
p. 391ff.

DESCRIPTORS: *Environment, *Sex, Insects,
Determination, *Drosophilidae, Genetics.

(Biological Sciences--Zoology, TT, v. 11, no. 10)

TT-64-12541-1 (p. T202-T208)

I. Svetlov, P. G.
II. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.

Office of Technical Services

Nemchinskaya, V. L. and Braun, A. D.
CHANGES IN THE PROPERTIES OF ISOLATED CELL
NUCLEI IN THE COURSE OF SURVIVAL AND
AFTER EXPOSURE TO DIFFERENT AGENTS. [1963]
[27p] 16refs FASEB manuscript no. S-121-3.
Order from OTS, SLA, or ETC \$2.60 TT-64-13497

Trans. of *Tsitologiya* (USSR) 1962, v. 4, no. 4,
p. 409-417.

DESCRIPTORS: *Nuclei (Biology), Cells (Biology),
Biophysics, *Hypothermia, Nucleic acids, *Exposure,

(Biological) Sciences--Pathology, TT, v. 11, no. 8)

TT-64-13497

- I. Nemchinskaya, V. L.
- II. Braun, A. D.
- III. FASEB-S-121-3
- IV. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- V. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Izakova, L. P.
GLYCOGEN DYNAMICS IN CELLS CULTIVATED IN
VITRO. Nov/Dec 63, 5p 26refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, v. 27, no. 6, pt. II,
p. T1053-T1057

Trans. of Zoologiya (USSR) 1962, v. 4, no. 4,
p. 427-[438].

DESCRIPTORS: Glycogen, *Cells (Biology), Trans-
plantation, Culture media, *Cytochemistry, *Tissue
cultures,

(Biological Sciences, TT, v. 11, no. 10)

TT-63-17973-6
(p. T1053-T1057)

I. Izakova, L. P.
II. Federation of American
Societies for
Experimental Biology,
Washington, D. C.

Office of Technical Services

Shapiro, E. A.
THE SORPTION PROPERTIES OF NERVE DURING
DEVELOPMENT OF A PESSIMUM IN A NERVE-
MUSCLE PREPARATION. [1963] [8p] 11 refs
FASEB Manuscript no. S 123-3.
Order from OTS, SLA, or ETC \$1.10 TT-63-24460

Trans. of Tsitolgiya (USSR) 1962, v. 4, no. 4,
p. 449-451. (Abstract available)

DESCRIPTORS: *Absorption (Biological), *Nerves,
*Neuromuscular transmission, Biological stains,
Stimulation, Electrokymography, Histological
techniques.

A vital staining method was used to investigate the
changes in the sorption properties of the nerve during
the development of a pessimum in a nerve-muscle
preparation as a result of the prolonged application of
(Biological Sciences--Physiology, TT, v. 11, no. 6)
(over)

TT-63-24460

- I. Title: Pessimum
- I. Shapiro, E. A.
- II. FASEB-S-123-3
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripts Technica, Inc.,
Washington, D. C.

Office of Technical Services

Concerning the Hemolytic Action of Thiol
Poisons, by V. V. Sokolovskiy, 10 pp.

RUSSIAN, per, Tsitologiya, No 4, 1962,
pp 460-465.

JPRS 16304

Sci - Chem

Nov 62

217,805

SYMPOSIUM ON NEUROSECRETORY ELEMENTS AND THEIR
SIGNIFICANCE IN THE ORGANISM, BY A. L. POLENOV,
6 PP.

RUSSIAN, PER, TSITOLOGIYA, VOL IV, NO 4, 1962,
PP 473-476.

JPRS 17947

SCI - MED

MAR 63

224,640

Aksenova, N. N., Bresler, V. M., Vorob'ev, V. I.,
and Olenov, Yu. M.
EFFECT OF RIBONUCLEIC ACIDS ISOLATED FROM
THE LIVER ON TRANSPLANTABILITY AND
GROWTH OF A PRIMARY TUMOR. Nov/Dec 63, Sp
8refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, v. 22, no. 6, pt. II,
p. T1017-T1021

Trans. of Tsitolgiya (USSR) 1962, v. 4, no. 5,
p. 490ff.

DESCRIPTORS: *Ribonucleic acids, *Tumors, Cells
(Biology), *Liver, *Transplantation, Neoplasms.

(Biological Sciences--Pathology, TT, v. 11, no. 10)

TT-63-17973-6
(p. T1017-T1021)

- I. Aksenova, N. N.
- II. Bresler, V. M.
- III. Vorob'ev, V.I.
- IV. Olenov, Yu. M.
- V. Federation of American
Societies for
Experimental Biology,
Washington, D. C.

Office of Technical Services

Salganik, R. P., Kiknadze, I. L., Morozova, T. M.,
Gubenko, I. S., and Drevich, V. F.

NATURE OF PYRONINOPHIL GRANULES OF THE
ISOLATED CELL NUCLEI FRACTION. Jan/Feb 64,
Sp 2refs

Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, 1964, v. 23, no. 1
(p. T23-T27)

Trans. of *Tsitologiya* (USSR) 1962, v. 4, no. 5,
p. 499ff.

DESCRIPTORS: *Cytochemistry, *Nuclei (Biology),
Cells (Biology), Ribonucleic acids, Biological stains,
Histology.

(Biological Sciences, TT, v. 11, no. 10)

TT-64-12541-1 (p. T23-T27)

I. Title: Pyroninophilia

I. Salganik, R. P.

II. Kiknadze, I. L.

III. Morozova, T. M.

IV. Gubenko, I. S.

V. Drevich, V. F.

VI. Federation of American
Societies for Experimental Biology,
Washington, D. C.

Office of Technical Services

Zalkind, S. Ya. and Zaslavskii, V. G.
CELL ADAPTATION TO CONDITIONS OF CULTIVA-
TION IN VITRO. Jan/Feb 64, 6p 25refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, 1964, v. 23, no. 1
(p. T31-T36)

Trans. of *Tsitologiya* (USSR) 1962, v. 4, no. 5,
p. 519ff.

DESCRIPTORS: Cells (Biology), *Adaptation (Physiology),
*Tissue culture, Transplantation, *Culture media.

(Biological Sciences--Physiology, TT, v. 11, no. 10)

TT-64-12541-1 (p. T31-T36)

- I. Zalkind, S. Ya.
- II. Zaslavskii, V. G.
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.

Office of Technical Services

Sologub, M. I.
CHANGES IN THE INTRACELLULAR RESTING
POTENTIAL GRADIENT IN MUSCLE FIBER IN THE
COURSE OF ALTERATION. [1963] [18]p. 2 refs.
FASEB manuscript no. S166-3.
Order from OTS or SLA \$1.60 63-23834

Trans. of Tsitologiya (USSR) 1962, v. 4, no. 5,
p. 530-537.

DESCRIPTORS: *Bioclectronics, *Cells (Biology),
*Muscles, Tissues (Biology), Electric potential,
Biophysics.

Intracellular resting potentials of the altered muscle
fiber of the sartorius muscle of the grass frog were
investigated by a microelectrode technique. During
continuous recording of resting potentials from the
same area of a fiber, changes in the potentials were
(Biological Sciences--Physiology, TT, v. 10, no. 11)
(over)

63-23834

- I. Sologub, M. I.
- II. FASEB S 166-3
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Physiological Gradients of the ~~Ciliato~~Ciliato Spirmostomum
Ambiguum, by L. N. Seravin.

RUSSIAN, per, Tsitologiya, Vol IV, No 25, 1962,
pp 545-554

~~RUSSIAN~~

NLL RTS 2284

(Low)

FHSEB

Sci - Biol & Med Sci
Feb 64

248,279